#### UNIVERSITY ASSESSMENT COMMITTEE

Feedback to Academic Departments on Assessment Activities Reported in 2014 (Academic year)

#### **UNDERGRADUATE PROGRAMS**

DEPARTMENT: Civil Engineering		DATI	E: April 21, 2015		
PROGRAM(S) COVERED IN REVIEW: BS in Civil Engineering  COMMITTEE MEMBER(S) CONDUCTING REVIEW: Bradley Myers & Devon Hansen					
<ul><li>Were any goals referenced?</li><li>If so, were goals well articulated?</li><li>Do goals address student learning?</li></ul>	YES X YES X YES X	NO NO NO	QUALIFIED Y/N QUALIFIED Y/N QUALIFIED Y/N		
Comments:  The Department has an Assessment Plan that was adopted in twelve come, with slight modification from the Accreditation agency for the Department. The Plan does not further break objectives, which could make assessment of meeting those o identifies multiple courses responsible for each of the program. In addition to the program goals, please also consider UND' (shown in alignment within parentheses) and identify which   X 1 Communication – written or oral ("able to write")	n Board for Er down the gene outcomes chall am outcomes. s institutional goals are simi	ngineering and ral program of enging. The Fand Essential lar to program	d Technology (ABET), the accrediting outcomes into specific learning Plan provides a curricular map that  Studies goals for student learning in goals.	g	
X 2 Thinking and reasoning – critical thinking (or "b 3 Thinking and reasoning – creative thinking (or " X 4 Thinking and reasoning – quantitative reasoning X 5 Information literacy ("be able to access and eval 6 Diversity ("demonstrate understanding of diversi X 7 Lifelong learning ("commit themselves to lifelor X 8 Service/citizenship ("share responsibility both for	e intellectually be intellectual ("apply empir uate for effectity and use that ig learning")	y curious"; an ly creative"; e ical dataan ctive, efficien t understandi	halyze, synthesize, evaluate) explore, discover, engage) halyze graphical information") ht, and ethical use") ng")		
Comments regarding program goals and alignment with in	estitutional and	d Essential S	tudies goals:		
2. ASSESSMENT METHODS					
<ul> <li>Were any specific assessment methods referenced?</li> <li>If so, were specifically chosen assessment methods appropriately aligned with individual</li> </ul>	YES <u>X</u>	NO	QUALIFIED Y/N		
goals?  • Were both direct and indirect assessment	YES X	NO	QUALIFIED Y/N		
methods used as components of a "multiple measures" approach?	YES <u>X</u>	NO	QUALIFIED Y/N		
Comments:					

The Plan identifies eight different assessment methods. The Plan provides a matrix that ties three of the assessment methods to each of the program outcomes. The Plan provides the use of methods on a three cycle, with four of the methods used each year. The Program Self Study that will be submitted by the Department to ABET reports that the cycle was disrupted between 2010 and 2012. All student outcomes were assessed during 2013-2014.

# 3 ASSESSMENT RESULTS

5. ASSESSMENT RESULTS					
Were any assessment results reported?	YES_X	<u> </u>	NO	QUALIFIED Y/N	
• If so, were the results clear in terms of how					
they specifically affirm achievement of goals?	YES X	<u> </u>	4O	QUALIFIED Y/N	
• If so, were the results clear in terms of how					
they indicate need for improvement?	YES_X	_ N	NO	QUALIFIED Y/N	
<ul> <li>Were the results tied to goals for student learning?</li> </ul>	YES_X	<u>.</u> 1	NO	QUALIFIED Y/N	
Comments: The Department did not provide an annual report for 2014. The Self Study that will be submitted by the Department to ABET Report contains a quite extensive analysis of the Assessment.	for in pre	eparat	ion for its a	ccreditation visit in October 2015. The	
In addition to program goals, some assessment results may be any goals for which the program presents findings, and, for in X 1 Communication – written or oral ("able to write a X 2 Thinking and reasoning – critical thinking (or "be 3 Thinking and reasoning – creative thinking (or "be X 4 Thinking and reasoning – quantitative reasoning (X 5 Information literacy ("be able to access and evalue 6 Diversity ("demonstrate understanding of diversit X 7 Lifelong learning ("commit themselves to lifelong X 8 Service/citizenship ("share responsibility both for Comments regarding results and the application of results to 4. CLOSING THE LOOP	adicated it and speak intellecture intellecture intellecture intellecture apply en atefor early and use g learning	ems, of in varually controlly of tually of the tually that unit in the tually of t	describe fin- ious setting curious"; an- creative"; e al dataand ve, efficien- understandin ties and for	dings below. s with a sense of purpose/audience") alyze, synthesize, evaluate) xplore, discover, engage) alyze graphical information") t, and ethical use") ng") the world")	
Were any actions taken on the basis of assessment					
results reported?	YES_X		NO	QUALIFIED Y/N	
If so, do curricular or other improvements/					
changes arising from assessment results directly address goals for student learning?	YES X	<u></u>	NO	QUALIFIED Y/N	
Comments: The Report contains a chart outlining each of the curricular clidentifies how that change is tied to the achievement of learning			by the Depa	artment over several years and	
SUMMARY					
Strengths			Areas f	for Improvement	
A specific plan for assessment is in place.	No	spec	ific plan for	assessment is in place.	
X Student learning goals are well-articulated.	Student learning goals are not well-articulated.				
Assessment methods are clearly described.	Assessment methods are not clearly described.				
X Assessment methods are appropriately selected.				s are not appropriately selected.	
X Assessment methods are well-implemented.				s are not well-implemented.	
X Direct and indirect methods are implemented.				essment methods predominates.	
X Results are reported.	No results are reported.				
X Results are tied to closing the loop.				rly tied to closing the loop.	
(Decision-making is tied to evidence.)	evidence.) (Decision-making is not directly tied to evidence.)				

### OVERALL SUMMARY AND RECOMMENDATIONS:

The Department clearly has an extensive and long-standing assessment plan for student learning. After the completion of its accreditation visit next year, the Department may want to consider revisiting its assessment plan for purposes of updating.

MATERIAL	S REVIEWED		
Annual Assession Previou	assessment report Report ment plan (as posted) us assessment review please describe) Program Self	Study for ABET	
Reviewer(s):	Name Department Phone Number e-mail	Bradley Myers Law School 7-2228 myers@law.und.edu	Devon Hansen Geography 7-4587 devon.hansen@und.edu
Section 1: Y	Section 2: Y Section	on 3: Y Section 4: Y	<u>Y</u>
Coding Key:			
Y			mind the kind of program(s) reviewed and recognizing all kinds of data to be collected and analyzed in other
Q	2 /	progress is apparent; how	ever, evidence is lacking that this is completely and
N		t was done at all, or it is no	ot done in relationship to student learning

Revised Sept 24, 2014

## UNIVERSITY ASSESSMENT COMMITTEE

Feedback to Academic Departments on Assessment Activities Reported in 2014 (Academic year)

# **GRADUATE PROGRAMS**

DEPARTMENT: Civil Engineering	DATE: April 21, 2015					
PROGRAM(S) COVERED IN REVIEW: Master of Science						
COMMITTEE MEMBER(S) CONDUCTING REV	COMMITTEE MEMBER(S) CONDUCTING REVIEW: Bradley Myers & Devon Hansen					
1. STUDENT LEARNING GOALS						
<ul><li>Were any goals referenced?</li><li>If so, were goals well-articulated?</li><li>Do goals address student learning?</li></ul>	YES_X YES YES	NO	QUALIFIED Y/N QUALIFIED Y/N _X QUALIFIED Y/N _X			
Comments:  The Department has an Assessment Plan posted in 2005. The Plan identifies 3 learning goals, each with three related learning objectives. Unfortunately, some of the listed objectives are not actually learning objectives. For example, objective 1.2 says that "students will complete a minimum of 30 credit hours of instruction in civil engineering and related fields." The assessment plan for the Master of Science is virtually the same as that for the Master of Engineering, with the primary difference being the focus on research projects for the MS, while the ME focusses on a design projects.  2. ASSESSMENT METHODS						
<ul> <li>Were any specific assessment methods referenced?</li> <li>If so, were specifically chosen assessment methods appropriately aligned with individual</li> </ul>	YES <u>X</u>	NO	QUALIFIED Y/N			
goals?  • Were both direct and indirect assessment	YES	NO	QUALIFIED Y/N <u>X</u>			
methods used as components of a "multiple measures" approach?	YES	NO	QUALIFIED Y/N <u>X</u>			
Comments:  The Plan calls for a single method to assess each of the goals. The first goal is to be assessed using surveys to be developed for each course offered. The second goal is to be assessed solely through a review of student design projects. The third goal is to be assessed using a survey of graduates conducted two years after they have completed the program.						
3. ASSESSMENT RESULTS						
Were any assessment results reported?  • If so, were the results clear in terms of how	YES	NO <u>X</u>	QUALIFIED Y/N			
they specifically affirm achievement of goals?  • If so, were the results clear in terms of how	YES	NO	QUALIFIED Y/N			
<ul><li>they indicate need for improvement?</li><li>Were the results tied to goals for student</li></ul>	YES	NO	QUALIFIED Y/N			
learning?	YES	NO	QUALIFIED Y/N			

### Comments:

The Department did not submit an assessment report for this year.

## 4. CLOSING THE LOOP

Were any actio results reported	ns taken on the basis of ass	sessment	YES	NO_X	QUALIFIED Y/N			
	so, do curricular or other	improvements/	TLS	_ 110 <u>11</u>	QUILLI IED 1/IV			
cł	nanges arising from assessive rectly address goals for students.	ment results	YES	_ NO	QUALIFIED Y/N			
Comments:								
SUMMARY								
Strengths		Areas for Improvement						
	e plan for assessment is in				r assessment is in place.			
	arning goals are well-artic				pals are not well-articulated.			
	nt methods are clearly desc		Assessment methods are not clearly described.					
	nt methods are appropriate nt methods are well-imple				ds are not appropriately selected. ds are not well-implemented.			
	indirect methods are impl				sessment methods predominates.			
Results are		emented.	X No resi					
	e tied to closing the loop.				arly tied to closing the loop.			
	-making is tied to evidence	e.)			s not directly tied to evidence.)			
MATERIALS  Annual a  X Assessm Previous	assessment report ent plan (as posted) s assessment review	amples of how the as	ssessment plar	i can be resti	ructured.			
Other (p	lease describe)							
Reviewer(s):	Name	Bradley Myers		on Hansen				
	Department	Law School		ography				
	Phone Number	7-2228	7-4:					
	e-mail	myers@law.und	edu dev.	on.hansen@	und.edu			
Section 1: Q	Section 2: Q Sect	tion 3: N Section	on 4: <u>N</u>					
Coding Key:								
	= yes, this is done approp	riately and well (bea	ring in mind t	he kind of p	rogram(s) reviewed and recognizing			
					be collected in other years)			
		or progress is appare	nt; however, e	vidence is la	acking that this is completely and			
	appropriately done		•, •					
N	= no, it is unclear whether	r it was done at all, c	or it is not don	e in relations	ship to student learning			

## UNIVERSITY ASSESSMENT COMMITTEE

Feedback to Academic Departments on Assessment Activities Reported in 2014 (Academic year)

# **GRADUATE PROGRAMS**

<b>DEPARTMENT: Civil Engineering</b>		DATE: April 21, 2015				
PROGRAM(S) COVERED IN REVIEW: Master of Engineering						
COMMITTEE MEMBER(S) CONDUCTING REV	COMMITTEE MEMBER(S) CONDUCTING REVIEW: Bradley Myers & Devon Hansen					
1. STUDENT LEARNING GOALS						
<ul><li>Were any goals referenced?</li><li>If so, were goals well-articulated?</li><li>Do goals address student learning?</li></ul>	YES_X YES YES		QUALIFIED Y/N QUALIFIED Y/N _X QUALIFIED Y/N _X			
Comments:  The Department has an Assessment Plan posted in 2005. The Plan identifies 3 learning goals, each with three related learning objectives. Unfortunately, some of the listed objectives are not actually learning objectives. For example, objective 1.2 says that "students will complete a minimum of 30 credit hours of instruction in civil engineering and related fields." The assessment plan for the Master of Engineering is virtually the same as that for the Masters of Science, with the primary difference being the focus on design projects for the ME, while the MS focusses on a research projects.						
2. ASSESSMENT METHODS						
<ul> <li>Were any specific assessment methods referenced?</li> <li>If so, were specifically chosen assessment methods appropriately aligned with individual goals?</li> </ul>			QUALIFIED Y/N QUALIFIED Y/N _X			
<ul> <li>Were both direct and indirect assessment methods used as components of a "multiple measures" approach?</li> </ul>		NO	QUALIFIED Y/N <u>X</u>			
Comments:  The Plan calls for a single method to assess each of the goals. The first goal is to be assessed using surveys to be developed for each course offered. The second goal is to be assessed solely through a review of student theses. The third goal is to be assessed using a survey of graduates conducted two years after they have completed the program.  3. ASSESSMENT RESULTS						
Were any assessment results reported?	YES	NO X	QUALIFIED Y/N			
• If so, were the results clear in terms of how						
<ul><li>they specifically affirm achievement of goals?</li><li>If so, were the results clear in terms of how</li></ul>	YES	NO	QUALIFIED Y/N			
they indicate need for improvement?	YES	NO	QUALIFIED Y/N			
<ul> <li>Were the results tied to goals for student learning?</li> </ul>	YES	NO	QUALIFIED Y/N			

#### Comments:

The Department did not submit an assessment report for this year.

### 4. CLOSING THE LOOP

Were any action results reported	ns taken on the basis of as	ssessment	YES	NO <u>_X</u>	QUALIFIED Y/N
• If	so, do curricular or other nanges arising from assess frectly address goals for st	sment results	YES		
Comments:					
SUMMARY					
Strengths				Areas	for Improvement
Student le Assessme Assessme Assessme Direct and Results an (Decision  OVERALL S  The Departmen measurable by degree progran  MATERIALS  Annual X Assessm Previous	an assessment method. The for discipline specific ex	culated. scribed. ely selected. emented. elemented. ce.)  COMMENDATIO sment plan. Each of the Department can loc	Stude Asses Asses Asses Asses X No re Resul (Deci	ent learning go ssment method ssment method ssment method gle type of ass sults are reports are not clear sion-making in	arly tied to closing the loop. Its not directly tied to evidence.)  Trining goals should reflect performance that it currently does in its Bachelor's
Reviewer(s):	Name	Bradley Myers	De	evon Hansen	
,	Department	Law School	Ge	eography	
	Phone Number e-mail	7-2228 myers@law.und.e	edu de	4587 von.hansen@	
Section 1: Q					
Coding Key:					
					rogram(s) reviewed and recognizing
Q	= qualified yes as action				be collected in other years) acking that this is completely and
	appropriately done = no, it is unclear whether	er it was done at all, or	r it is not do	ne in relations	ship to student learning